

ABSTRACT

The invention relates to a cross spring element, as it is preferably arranged in measuring apparatuses for the measurement of the mass flow of bulk materials according to the Coriolis principle. In that regard, two bearing elements (1, 2) that are rotatable relative to one another are provided in the measuring branch and comprise at least four mutually orthogonally crossing leaf spring elements (3, 4, 5, 6), which connect both of the bearing elements (1, 2) with one another. In that regard, the mutually crossing leaf spring elements (3, 4; 5, 6) of one radial direction (8) are arranged at least pair-wise and cross themselves on the rotation axis (7). The ends of each leaf spring pair (3, 4; 5, 6) in that regard are secured on one side respectively on different bearing elements (1, 2) so that they transmit radial compressive and tensile loads in each direction (8) simultaneously.